

Dar-Bin Shieh

List of Publications by Year in descending order

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57
papers

1,461
citations

361413

20
h-index

330143

37
g-index

58
all docs

58
docs citations

58
times ranked

2596
citing authors

#	ARTICLE	IF	CITATIONS
1	From Microenvironment Remediation to Novel Anti-Cancer Strategy: The Emergence of Zero Valent Iron Nanoparticles. <i>Pharmaceutics</i> , 2022, 14, 99.	4.5	3
2	An innovative NRF2 nano-modulator induces lung cancer ferroptosis and elicits an immunostimulatory tumor microenvironment. <i>Theranostics</i> , 2021, 11, 7072-7091.	10.0	108
3	Development of flexible electrochemical impedance spectroscopy-based biosensing platform for rapid screening of SARS-CoV-2 inhibitors. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113213.	10.1	44
4	Opportunities for Nanomedicine in Clostridioides difficile Infection. <i>Antibiotics</i> , 2021, 10, 948.	3.7	4
5	A Study on Enhanced Fluorescence Signal-to-noise by using the Stray Light Shutter for Quantitative PCR Chip. , 2021, , .		0
6	The Pathophysiologic Role of Gelsolin in Chronic Kidney Disease: Focus on Podocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13281.	4.1	2
7	The exosome-mediated autocrine and paracrine actions of plasma gelsolin in ovarian cancer chemoresistance. <i>Oncogene</i> , 2020, 39, 1600-1616.	5.9	85
8	Fluorescence Signal-to-Noise Ratio Enhanced by Off-Plane Excitation for Quantitative PCR Device. , 2020, , .		1
9	Development of Non-contact Composite Temperature Sensing (CTS) for photothermal Real-time quantitative PCR Device. , 2020, , .		0
10	Silver-coated zero-valent iron nanoparticles enhance cancer therapy in mice through lysosome-dependent dual programmed cell death pathways: triggering simultaneous apoptosis and autophagy only in cancerous cells. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4122-4131.	5.8	12
11	Circulating Plasma Gelsolin: A Predictor of Favorable Clinical Outcomes in Head and Neck Cancer and Sensitive Biomarker for Early Disease Diagnosis Combined with Soluble Fas Ligand. <i>Cancers</i> , 2020, 12, 1569.	3.7	10
12	The highest fluorescence signal-to-noise ratio is achieved by optimizing the light acquisition direction and tube diameter of the QPCR system. , 2020, , .		0
13	Iron Release Profile of Silica-Modified Zero-Valent Iron NPs and Their Implication in Cancer Therapy. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4336.	4.1	11
14	Assessment of zero-valent iron-based nanotherapeutics for ferroptosis induction and resensitization strategy in cancer cells. <i>Biomaterials Science</i> , 2019, 7, 1311-1322.	5.4	52
15	Vancomycin-Loaded Nanoparticles Enhance Sporicidal and Antibacterial Efficacy for Clostridium difficile Infection. <i>Frontiers in Microbiology</i> , 2019, 10, 1141.	3.5	15
16	Targeted Delivery of Curcumin Rescues Endoplasmic Reticulum-Retained Mutant NOX2 Protein and Avoids Leukocyte Apoptosis. <i>Journal of Immunology</i> , 2019, 202, 3394-3403.	0.8	11
17	Dental cement's biological and mechanical properties improved by ZnO nanospheres. <i>Materials Science and Engineering C</i> , 2019, 97, 116-123.	7.3	17
18	Enhancing enterovirus A71 vaccine production yield by microcarrier perfusion bioreactor culture. <i>Vaccine</i> , 2018, 36, 3134-3139.	3.8	11

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19	Characterization of Iron Core-Gold Shell Nanoparticles for Anti-Cancer Treatments: Chemical and Structural Transformations During Storage and Use. <i>Materials</i> , 2018, 11, 2572.	2.9	14
20	Magnetic field distribution modulation of intrathecal delivered ketorolac iron-oxide nanoparticle conjugates produce excellent analgesia for chronic inflammatory pain. <i>Journal of Nanobiotechnology</i> , 2018, 16, 49.	9.1	18
21	The analgesia efficiency of ultrasmall magnetic iron oxide nanoparticles in mice chronic inflammatory pain model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1975-1981.	3.3	17
22	Octahedron Iron Oxide Nanocrystals Prohibited <i>Clostridium difficile</i> Spore Germination and Attenuated Local and Systemic Inflammation. <i>Scientific Reports</i> , 2017, 7, 8124.	3.3	16
23	A bead-based fluorescence immunosensing technique enabled by the integration of Förster resonance energy transfer and optoelectrokinetic concentration. <i>Biomicrofluidics</i> , 2016, 10, 014113.	2.4	17
24	Dietary adaptations in the ultrastructure of dinosaur dentine. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160626.	3.4	12
25	Immunological and biochemical characterizations of coxsackievirus A6 and A10 viral particles. <i>Antiviral Research</i> , 2016, 129, 58-66.	4.1	33
26	Handheld energy-efficient magneto-optical real-time quantitative PCR device for target DNA enrichment and quantification. <i>NPG Asia Materials</i> , 2016, 8, e277-e277.	7.9	35
27	Mitochondrial dynamics regulating chemoresistance in gynecological cancers. <i>Annals of the New York Academy of Sciences</i> , 2015, 1350, 1-16.	3.8	66
28	Cell Surface Nucleolin Facilitates Enterovirus 71 Binding and Infection. <i>Journal of Virology</i> , 2015, 89, 4527-4538.	3.4	98
29	Involvement of gelsolin in TGF-beta 1 induced epithelial to mesenchymal transition in breast cancer cells. <i>Journal of Biomedical Science</i> , 2015, 22, 90.	7.0	29
30	2-Deoxy-d-Glucose Can Complement Doxorubicin and Sorafenib to Suppress the Growth of Papillary Thyroid Carcinoma Cells. <i>PLoS ONE</i> , 2015, 10, e0130959.	2.5	19
31	Introduction to the Special Issue. <i>Academic Radiology</i> , 2014, 21, 137-138.	2.5	0
32	Cell fate regulation by gelsolin in human gynecologic cancers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14442-14447.	7.1	52
33	Nanomaterial-mediated photothermal cancer treatment: the pivotal role of cellular uptake on photothermal therapeutic efficacy. <i>RSC Advances</i> , 2014, 4, 53297-53306.	3.6	15
34	Advances in Noninvasive Functional Imaging of Bone. <i>Academic Radiology</i> , 2014, 21, 281-301.	2.5	5
35	Single domain antibody against carcinoembryonic antigen-related cell adhesion molecule 6 (CEACAM6) inhibits proliferation, migration, invasion and angiogenesis of pancreatic cancer cells. <i>European Journal of Cancer</i> , 2014, 50, 713-721.	2.8	29
36	Carcinoembryonic cell adhesion molecule 6 as a therapeutic target for breast cancer (1048.2). <i>FASEB Journal</i> , 2014, 28, 1048.2.	0.5	1

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37	InÂvivo anti-cancer efficacy of magnetite nanocrystal - based system using locoregional hyperthermia combined with 5-fluorouracil chemotherapy. Biomaterials, 2013, 34, 7873-7883.	11.4	91
38	The anticancer properties of iron core–gold shell nanoparticles in colorectal cancer cells. International Journal of Nanomedicine, 2013, 8, 3321.	6.7	25
39	Improved therapeutic efficacy via magnetite nanoconjugates derived synchronization of hyperthermochemotherapy. , 2012, , .		0
40	Size-control synthesis of structure deficient truncated octahedral Fe ₃ âˆ†O ₄ nanoparticles: high magnetization magnetites as effective hepatic contrast agents. Journal of Materials Chemistry, 2011, 21, 7472.	6.7	39
41	A new microfluid system for mitochondrial DNA extraction and analysis. , 2011, , .		0
42	Cancer-cell-specific cytotoxicity of non-oxidized iron elements in iron core-gold shell NPs. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 420-427.	3.3	66
43	The selective growth inhibition of oral cancer by iron core-gold shell nanoparticles through mitochondria-mediated autophagy. Biomaterials, 2011, 32, 4565-4573.	11.4	145
44	Three-dimensional microfluidic chip for the extraction of mitochondrial DNA. Microfluidics and Nanofluidics, 2010, 9, 489-498.	2.2	10
45	A microfluidic-based cell culture platform for cellular and subcellular imaging. , 2009, , .		1
46	Combined Multi-Target Molecular Ultrasonography and Photothermal Therapy Using Cancer Targeting Gold Nano Rod Probes. , 2008, , .		0
47	Photoactive Compound-Triplex-Forming Oligonucleotide Linked Gold Nanoparticle as an Artificial Gene Specific DNA Cleaver Assembly. , 2008, , .		0
48	Oxidized LDL as an Effective Anti-Cancer Bio Nanoparticle. , 2008, , .		0
49	An Iron Oxide Nanoparticle Drug Carrier for Improved Cancer Chemotherapy in Drug Resistance Line. , 2008, , .		0
50	Nanoshell Magnetic Resonance Imaging Contrast Agents. , 2007, , .		2
51	Ex vivo and in vivo oral cancer diagnosis using backward-collected third harmonic generation biopsy. , 2006, , .		0
52	Aqueous nickel-nitrilotriacetate modified Fe ₃ O ₄ â€“NH ₃ ⁺ nanoparticles for protein purification and cell targeting. Nanotechnology, 2006, 17, 4174-4182.	2.6	33
53	Tissue expression of gelsolin in oral carcinogenesis progression and its clinicopathological implications. Oral Oncology, 2006, 42, 599-606.	1.5	40
54	Spectral evidence on the plasmon-resonant enhanced third-harmonic χ⁽³⁾ of Ag nanoparticles. , 2006, , .		0

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55	Molecular imaging of cancer cells using plasmon-resonant-enhanced third-harmonic-generation microscopy with silver nanoparticles. , 2005, , .		0
56	Aqueous dispersions of magnetite nanoparticles with NH ₃ ⁺ surfaces for magnetic manipulations of biomolecules and MRI contrast agents. Biomaterials, 2005, 26, 7183-7191.	11.4	112
57	A Biological Strategy for Fabrication of Au/EGFP Nanoparticle Conjugates Retaining Bioactivity. Nano Letters, 2004, 4, 1209-1212.	9.1	35